

1639 \$

PATENT

Application Docket No.: A-70203/RMS/RMK/JML
Attorney File No.: 469008-137

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CHOONG et al.

Serial No. 09/652,284

Filing Date: August 31, 2000

For: *Addressable Array for High Density
Electrical and Electrochemical
Detection of Biomolecules*

Examiner: Tran, My Chau T.

Group Art Unit: 1639

#18
Supp
63-04

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450:

Dated: February 13, 2004

Signed: 
Brent Yonchura

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
AND
STATEMENT OF RELATEDNESS

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. Copies of these references are enclosed.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

02/13/2004 SPONSORING 00000002 07500004

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1. U.S.S.N. 09/306,749, filed May 7, 1999; U.S.S.N. 10/279,742, filed October 23, 2002;
2. U.S.S.N. 08/873,978, filed June 12, 1997;
3. U.S.S.N. 09/557,577, filed April 21, 2000; U.S.S.N. 10/236,481, filed September 5, 2002;
4. U.S.S.N. 08/873,597, filed June 12, 1997;
5. U.S.S.N. 10/241,376, filed September 11, 2002;
6. U.S.S.N. 09/096,593, filed June 12, 1998;
7. U.S.S.N. 09/440,371, filed November 12, 1999; U.S.S.N. 09/520,477, filed March 8, 2000; and U.S.S.N. 09/712,792, filed November 13, 2000;
8. U.S.S.N. 09/245,105, filed January 27, 1999;
9. U.S.S.N. 09/760,384, filed January 11, 2001; U.S.S.N. 09/993,342, filed November 5, 2001; and U.S.S.N. 10/412,660, filed April 11, 2003;
10. U.S.S.N. 10/259,532, filed September 27, 2002;
11. U.S.S.N. 10/149,319, filed February 28, 2003;
12. U.S.S.N. 09/506,178, filed February 17, 2000; U.S.S.N. 10/203,874, filed August 13, 2002; and U.S.S.N. 10/226,639, filed August 23, 2002;
13. U.S.S.N. 09/572,187, filed May 17, 2000; and
14. U.S.S.N. 09/590,964, filed June 9, 2000.

None of the foregoing references are believed to disclose the invention as claimed.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the

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reference constitutes prior art against the invention claimed in the above identified application

Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). While no additional fee is believed to be due, if this belief is in error the Commissioner is authorized to charge any additional fees, including extension fees or other relief which may be required, or credit any overpayment to Deposit Account No. 50-2319 (Our Order No. 469008-137 [A-70203/RMS/RMK/JML]).

Dated: 2/13/04

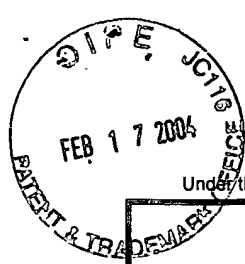
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Facsimile: (415) 398-3249

Attachments : Form PTO/SB/8A, Substitute for form 1449
143 cited references
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Respectfully submitted,
DORSEY & WHITNEY LLP

BY: Jennifer M. Lane

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Filed Under 37 C.F.R. § 1.34(a)



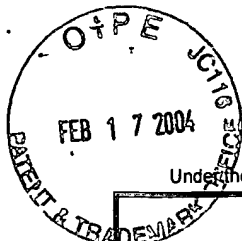
Substitute for form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	09/652,284	
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			First Named Inventor	CHOONG, Vi-En	
			Group Art Unit	1639	
Examiner Name	TRAN, My Chau T.				
Sheet	1	of	6	Attorney Docket Number	A-70203/RMS/RMK/JML (469008-137)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	3,934,209	01-20-1976	Valentine et al.	
	A2	4,656,127	04-07-1987	Mundy	
	A3	4,683,195	07-28-1987	Mullis et al.	
	A4	4,713,347	12-15-1987	Mitchell et al.	
	A5	4,839,017	06-13-1989	Taniguchi et al.	
	A6	4,920,047	04-24-1990	Giaever et al.	
	A7	4,988,617	01-29-1991	Landegren et al.	
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	A9	5,001,048	03-19-1991	Taylor et al.	
	A10	5,108,573	04-28-1992	Rubinstein et al.	
	A11	5,126,034	06-30-1992	Carter et al.	
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	A15	5,486,335	01-23-1996	Wilding et al.	
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	A28	5,662,787	09-02-1997	Guttman et al.	
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	A30	5,728,532	03-17-1998	Ackley	
	A31	5,776,672	07-07-1998	Hashimoto et al.	

Examiner Signature	Date Considered
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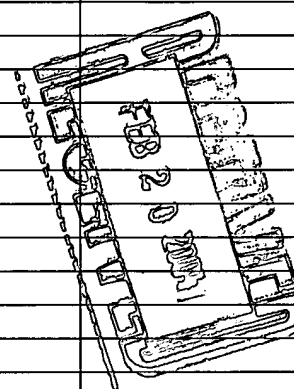
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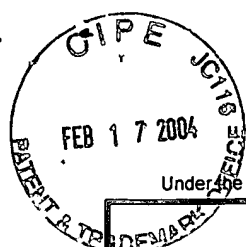
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	A32	5,787,032	07-28-1998	Heller et al.	
	A33	5,835,404	11-10-1998	Heller et al.	
	A34	5,849,489	12-15-1998	Heller	
	A35	5,866,345	02-02-1999	Wilding et al.	
	A36	5,871,633	02-16-1999	Greenblatt et al.	
	A37	5,925,520	07-20-1999	Tully et al.	
	A38	5,929,208	07-27-1999	Heller et al.	
	A39	5,952,172	09-14-1999	Meade et al.	
	A40	5,965,452	10-12-1999	Kovacs	
	A41	5,972,199	10-26-1999	Heller et al.	
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	A63	6,225,059 B1	05-01-2001	Ackley et al.	
	A64	6,238,870 B1	05-29-2001	Meade et al.	
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	B1	EP 0 213 825 A2	03-11-1987	Molecular Devices Corporation		
	B2	EP 0 226 470 A2	06-24-1987	Unilever PLC		
	B3	EP 0 238 166	09-23-1987	Nippon Paint Co. Ltd.		
	B4	EP 0 372 911 A2(A3)	06-13-1990	Chirana Zavody Zdravotnicke		
	B5	EP 0 543 550 A1	05-26-1993	Houston Advanced Research Center		
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	B8	WO 93/16383 A1	08-19-1993	Scientific Generics Ltd.		
	B9	WO 95/29199 A1	11-02-1995	Bio Merieux		
	B10	WO 96/06946 A1	03-07-1996	Igen Inc.		
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	B13	WO 96/39252 A1	12-12-1996	David Sarnoff Research Center		
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	B21	WO 98/49557 A1	11-05-1998	B-E Safe Inc.		
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	B28	WO 00/16089 A2(A3)	03-23-2000	Clinical Micro Sensors		

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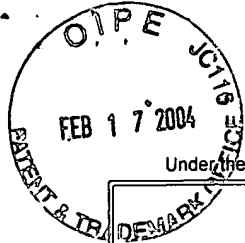
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	B29	WO 00/38836 A1	07-06-2000	Clinical Micro Sensors		
	B30	WO 00/77523 A1	12-21-2000	Motorola Inc.		
	B31	WO 01/42508 A2	06-14-2001	Motorola Inc.		
	B32	WO 01/43870 A2	06-21-2001	Motorola Inc.		
	B33	WO 01/50131 A1	07-12-2001	Motorola Inc.		
	B34	WO 01/57533 A2	08-09-2001	Motorola Inc.		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
	C1	BARD, A., et al. (eds.), "Controlled-Current Techniques," <i>Electrochemical Methods</i> , pp. 316-353, John Wiley & Sons, Inc.: New York, NY (2001).		
	C2	BEATTIE, K., et al., "Genosensor Technology", <i>Clin. Chem.</i> 39(4):719-722 (1993).		
	C3	BIDAN, G., et al., "Conducting Polymers as a link between biomolecules and microelectronics," <i>Synthetic Metals</i> 102(1-3):1363-1365 (Jun. 1999) (Abstract).		
	C4	DESIMONI, E., et al., "A polypyrrole-coated, piezoelectric sensor for Cr ^{VI} . Preliminary results," <i>Anal. Commun.</i> 36(2):45-46 (Feb. 1999).		
	C5	DICESARE, J., et al., "A High-Sensitivity Electrochemiluminescence-Based Detection System for Automated PCR Product Quantification," <i>BioTechniques</i> 15(1):152-157 (1993).		
	C6	GARNER, B., et al., "Polypyrrole-heparin composites as stimulus-responsive substrates for endothelial cell growth," <i>J. Biol. Materials Res.</i> 44(2):121-129 (Feb. 1999).		
	C7	GUSCHIN, D., et al., "Oligonucleotide Microchips as Genosensors for Determinative and Environmental Studies in Microbiology," <i>Applied Environ. Microbiol.</i> 63(6):2397-2402 (Jun. 1997).		
	C8	IHARA, T., et al., "Ferrocene-oligonucleotide conjugates for electrochemical probing of DNA," <i>Nucleic Acids Res.</i> 24(21):4273-4280 (Nov. 1996).		
	C9	KWOK, C., et al., "Surface Modification with Polymers with Self-Assembled Molecular Structures: Multitechnique Surface Characterization," <i>Biomacromolecules</i> 1(1):139-148 (Spr. 2000).		
	C10	LIVACHE, T., et al., "Biosensing effects in functionalized electroconducting conjugated polymer layers: addressable DNA matrix for the detection of gene mutations," <i>Synthetic Metals</i> 71(3):2143-2146 (1995).		
	C11	LIVACHE, T., et al., "Polypyrrole DNA Chip on a Silicon Device: Example of Hepatitis C Virus Genotyping," <i>Anal. Biochem.</i> 255(2):188-194 (Sep. 1998).		
	C12	MILLAN, K., et al., "Sequence-Selective Biosensor for DNA Based on Electroactive Hybridization Indicators," <i>Anal. Chem.</i> 65(17):2317-2323 (Sep. 1993).		

Examiner Signature	Date Considered
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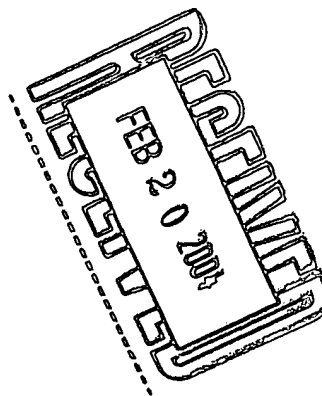
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			Application Number	09/652,284	
			Filing Date	August 31, 2000	
			First Named Inventor	CHOONG, Vi-En	
			Group Art Unit	1639	
			Examiner Name	TRAN, My Chau T.	
Sheet	6	of	6	Attorney Docket Number	A-70203/RMS/RMK/JML (469008-137)

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	C13	PÉREZ, F., et al., "Immunomagnetic Separation with Mediated Flow Injection Analysis Amperometric Detection of <i>Escherichia coli</i> 0157," <i>Anal. Chem.</i> 70(11):2380-2386 (Jun. 1998).		
	C14	PREZYNA, L., et al., "Interaction of Cationic Polypeptides with Electroactive Polypyrrole/Poly(Styrene Sulfonate) and Poly(N-Methylpyrrole)/Poly(Styrenesulfonate) Films," <i>Synthetic Metals</i> , 41(3):979-981 (1991).		
	C15	SARGENT, A., et al., "The Electrochemistry of Antibody-Modified Conducting Polymer Electrodes," <i>J. Electroanalytical Chem.</i> 470(2):144-156 (Jul. 1999).		
	C16	SAWYER, D.T., et al. (eds.), "Reference Electrodes for Use in Aqueous Solutions," <i>Electrochemistry for Chemists</i> , 2 nd ed., pp.188-189, John Wiley & Sons, Inc.: New York, NY (1995).		
	C17	TURYAN, I., et al., "Patterning and Characterization of Surfaces with Organic and Biological Molecules by the Scanning Electrochemical Microscope," <i>Anal. Chem.</i> 72(15):3431-3435 (Aug. 2000).		
	C18	ULMAN, A., et al., "Self-assembled monolayers of rigid thiols," <i>Rev. Molecular Biotechnol.</i> 74(3):175-188 (2000).		
	C19	YANG, M., et al., "Genosensor technology and the detection of interfacial nucleic acid chemistry," <i>Anal. Chim. Acta.</i> 346(3):259-275 (Jul. 1997).		



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